



Express Mail No. EV881853365US  
Docket No.: 313688001US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Benny H. Johnson

U.S. Application No.: 10/555,899

Conf. No.: 4474

U.S. Filing Date: November 7, 2005

Art Unit: 1700

Examiner: Not Yet Assigned

For: MICROELECTRONIC SUBSTRATES WITH  
THERMALLY CONDUCTIVE PATHWAYS  
AND METHODS OF MAKING SAME

**POWER OF ATTORNEY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Merix Corporation, assignee of the entire right title and interest in the above-identified application by assignment, a copy of which is submitted herewith, hereby appoints the following attorneys and/or agents of the firm of Perkins Coie LLP:

All practitioners at Customer Number 25096.

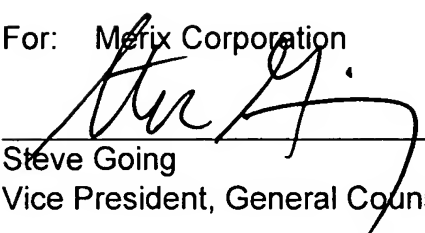
as its attorneys with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.

The assignee certifies that it has reviewed the assignment and to the best of the assignee's knowledge and belief, title is in the assignee.

Please direct all correspondence regarding this application to the following:

PERKINS COIE LLP  
Attn: Stephen E. Arnett  
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For: Merix Corporation

  
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Steve Going  
Vice President, General Counsel & Secretary

Dated: 8 November 2006

### **ASSIGNMENT BY INVENTOR**

This Assignment is by Benny H. Johnson (the "Assignor"), residing at 21200 S.W. Lawrence Lane, Aloha, Oregon 97006. The Assignor has invented one or more certain inventions (the "Invention(s)") described in a patent application entitled "MICROELECTRONIC SUBSTRATES WITH THERMALLY CONDUCTIVE PATHWAYS AND METHODS OF MAKING SAME" for which an International Application was filed on May 7, 2004, as Application No. PCT/US2004/014209, designating the United States.

Merix Corporation, a Corporation of Oregon having its principal place of business at 1521 Poplar Lane, Forest Grove, Oregon 97116 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignor warrants that Assignor owns the Rights, and that the Rights are unencumbered. Assignor also agrees to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignor requests the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee.

Benny H. Johnson  
Benny H. Johnson

Date: 11/30/05

United States of America )  
State of OREGON ) ss.:  
County of WASHINGTON

On this 30 day of Nov., 2005, before me  
personally came Benny H. Johnson, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Rita J. Sanchez  
Notary Public

